

FIG. 1A RLL CODE1 0 0 1 0 0 0 1 0 0 0 0 1 0 0 1

FIG. 1B WRITING SIGNAL



FIG. 1C MARK



FIG. 1D PLAY BACK SIGNAL



FIG. 1E DIFFERENTIAL WAVEFORM



FIG. 1F DETECTION WINDOW

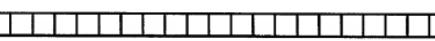


FIG. 1G CHANNEL CLOCK



FIG. 1H DETECTION DATA 1 0 0 1 0 0 0 1 0 0 0 0 1 0 0 1

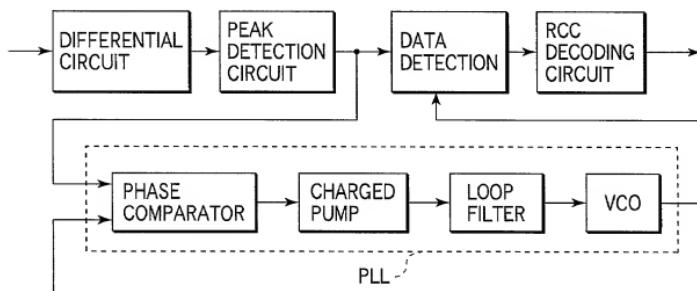


FIG. 2

FIG. 3A RLL CODE

.....1 0 0 1 0 0 0 1 0 0 0 0 1 0 0 1 0

FIG. 3B WRITING SIGNAL



FIG. 3C WRITING BIT ROW

0 0 1 1 1 0 0 0 0 1 1 1 1 1 0 0 0 1 1

FIG. 3D RESPONSE WAVEFORM

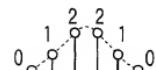
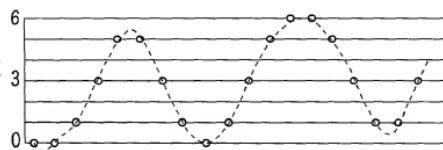


FIG. 3E {
SUPER-
POSITION
OF THE
RESPONSE
WAVEFORM

0 0 1 2 2 1 1 2 2 1 1 2 2 1
1 2 2 1 1 2 2 1 1 2 2 1
1 2 2 1 1 2 2 1 1 2 2 1
0 1 2 2 1
1 2 2 1
0 0 1 3 5 5 3 1 0 1 3 5 6 6 5 3 1 1 3

FIG. 3F PLAY BACK WAVEFORM



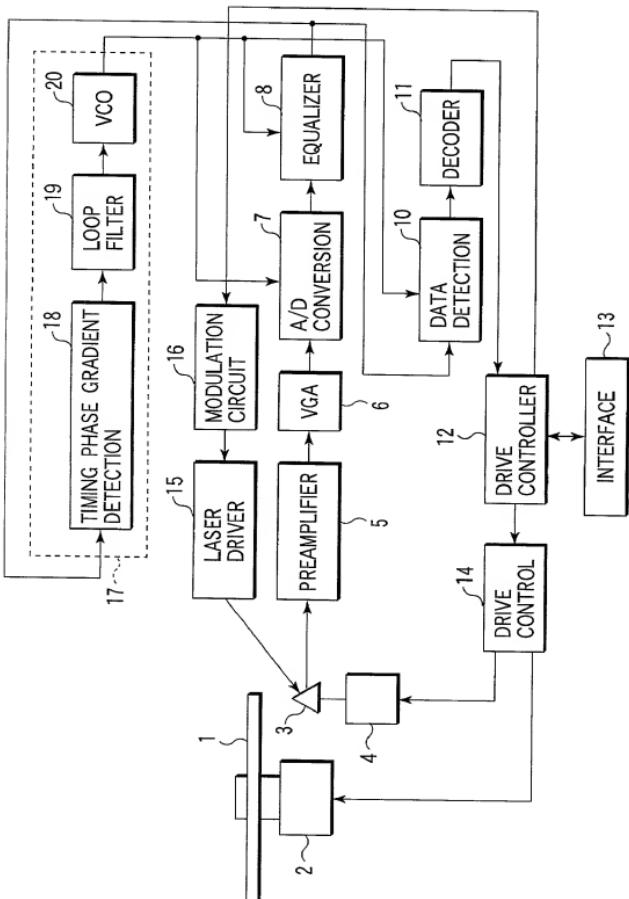


FIG. 4

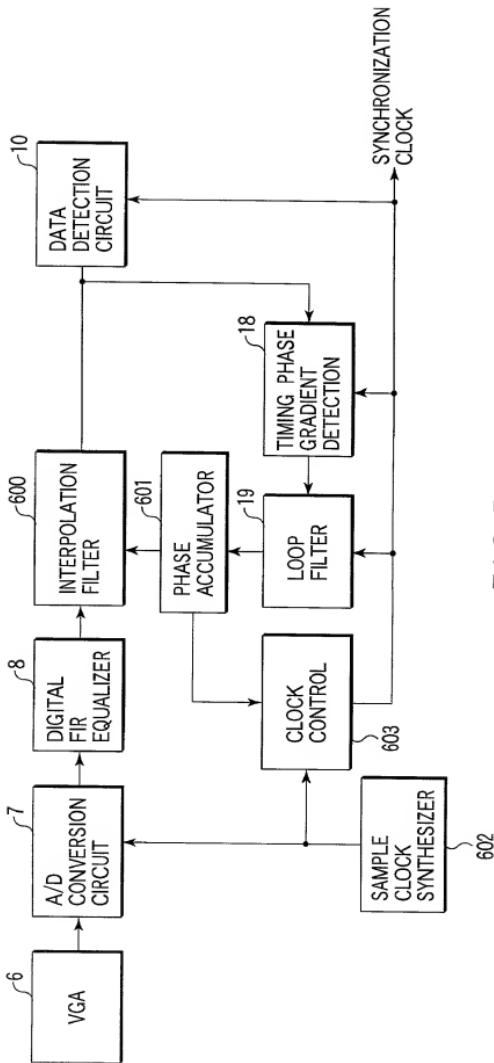


FIG. 5

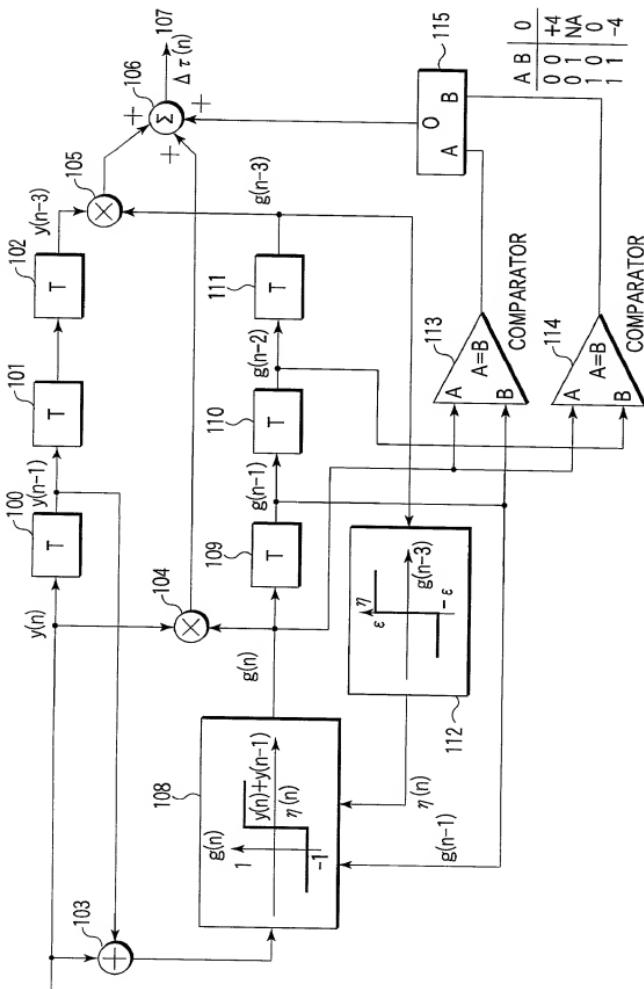


FIG. 6

FIG. 7A RLL CODE

.....1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0.....

FIG. 7B WRITING SIGNAL



FIG. 7C WRITING BIT ROW

1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0

FIG. 7D RESPONSE WAVEFORM

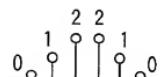
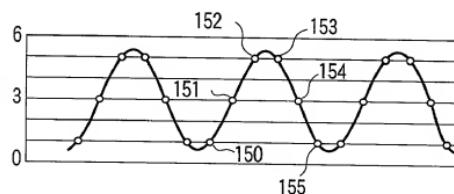


FIG. 7E {
SUPER-
POSITION
OF THE
RESPONSE
WAVEFORM

0 0 1 2 2 1	1 2 2 1	1 2 2 1
1 2 2 1	1 2 2 1	1 2 2 1
1 2 2 1	1 2 2 1	1 2 2 1
0 0 1 3 5 5 3 1 1 3 5 5 3 1 1 3 5 5 3 1		

FIG. 7F PLAY BACK WAVEFORM



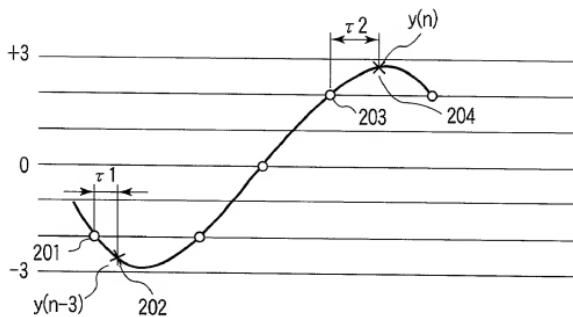


FIG. 8A

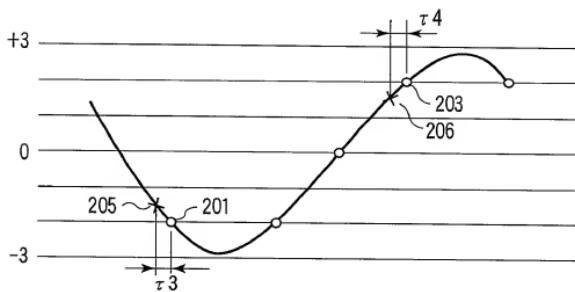


FIG. 8B

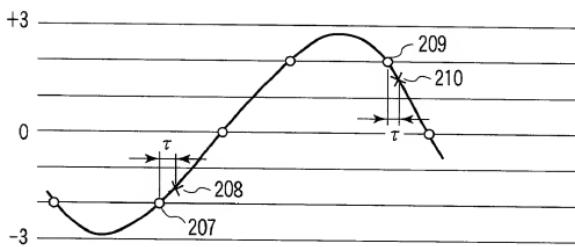


FIG. 9A

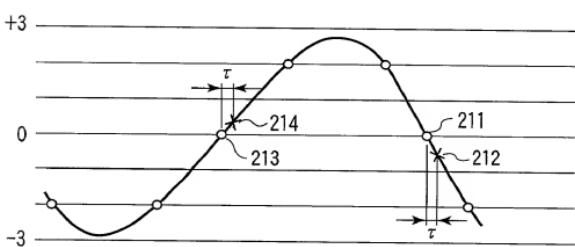


FIG. 9B

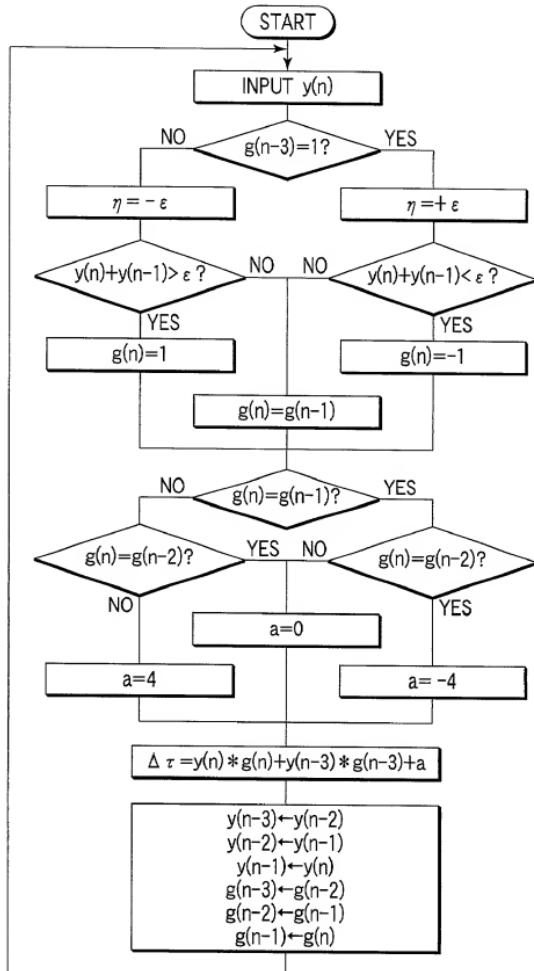


FIG. 10

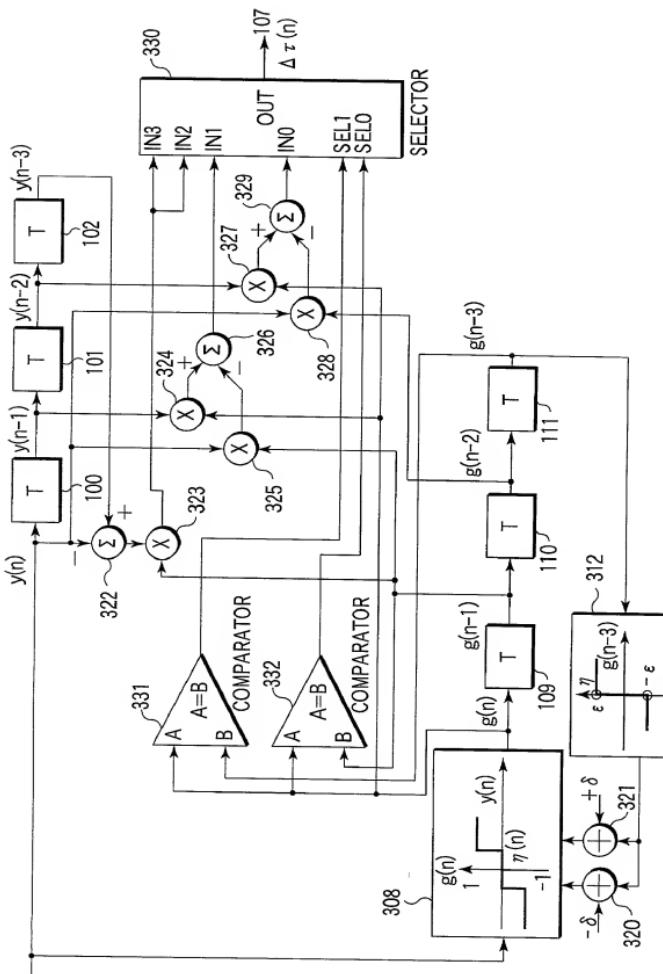


FIG. 11

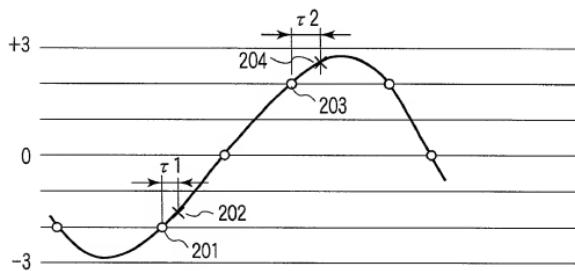


FIG. 12A

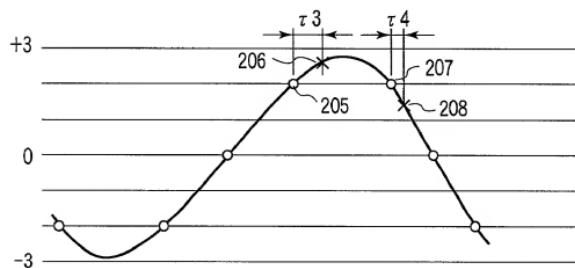


FIG. 12B

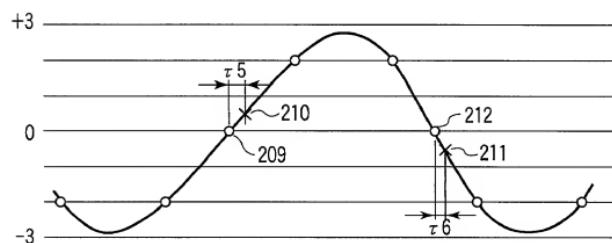


FIG. 13

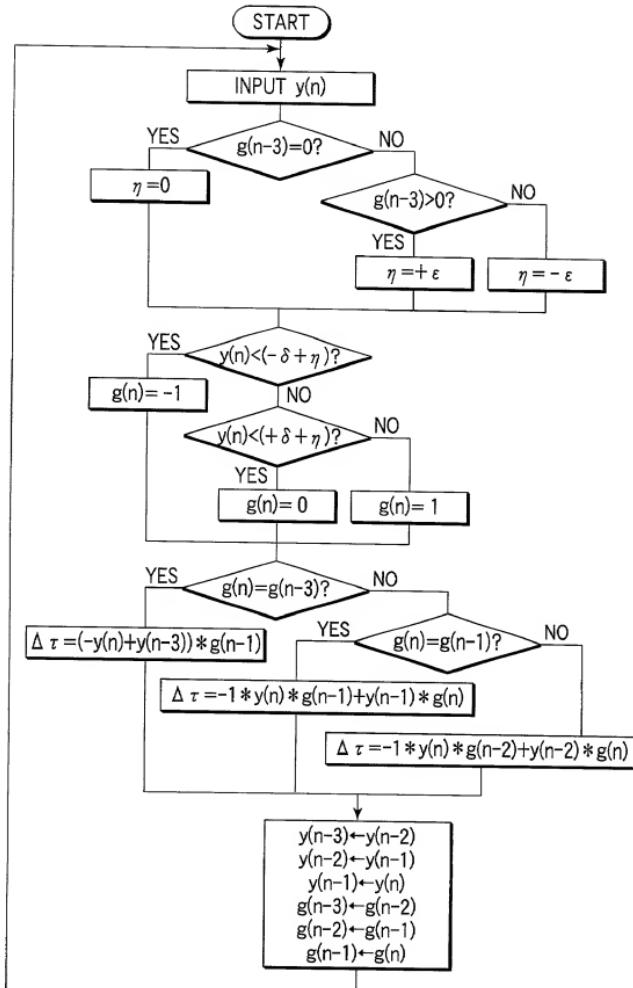


FIG. 14

PR(1,2,2,1)
 STATE TRANSITION DIAGRAM
 (d=2)

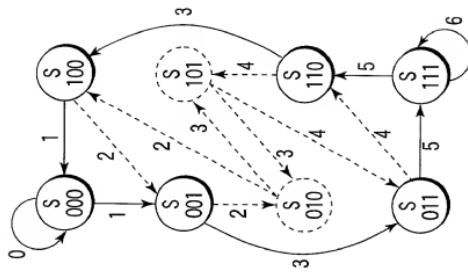


FIG. 15C

PR(1,2,2,1)
 STATE TRANSITION DIAGRAM
 (d=1)

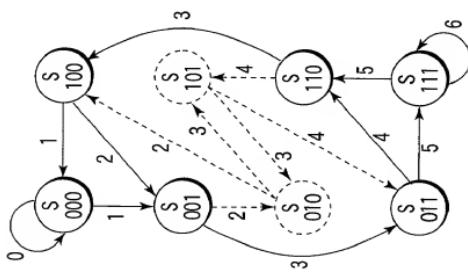


FIG. 15B

PR(1,2,2,1)
 STATE TRANSITION DIAGRAM
 (d=0)

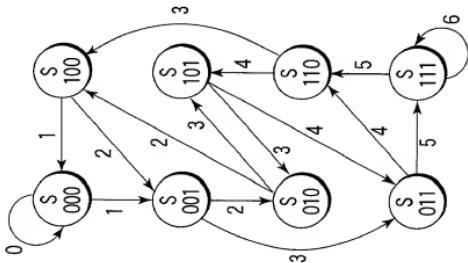


FIG. 15A

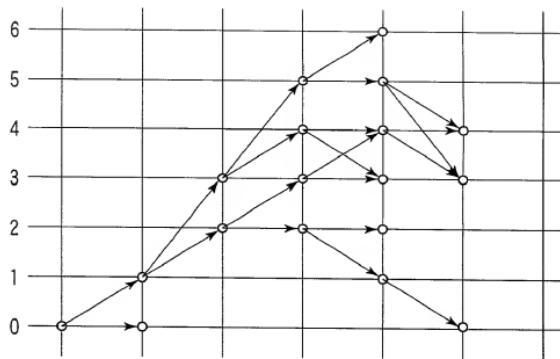


FIG. 16A

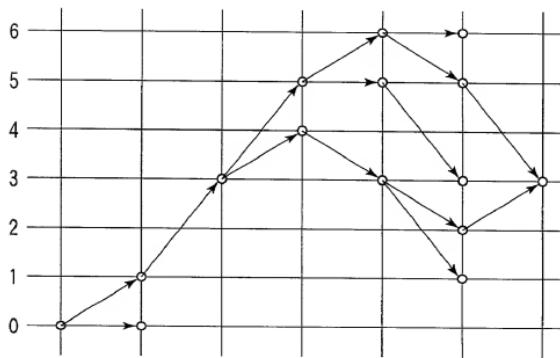


FIG. 16B

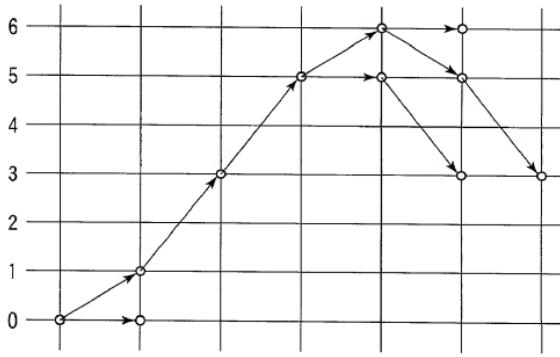
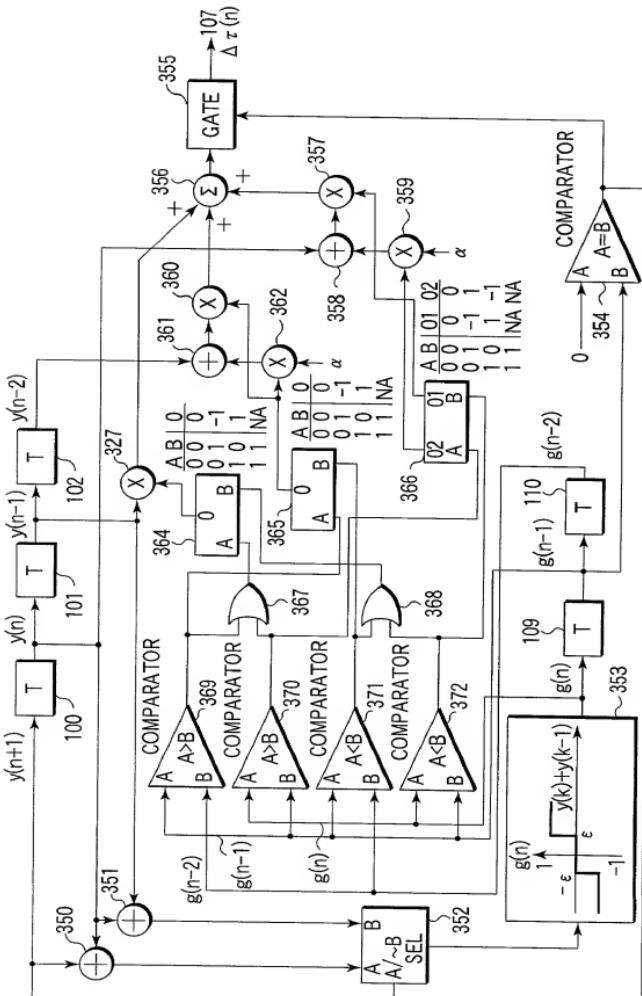


FIG. 17



EIG 18

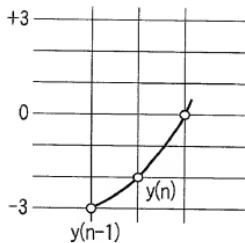


FIG. 19A

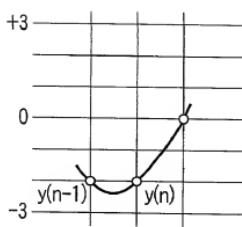


FIG. 19B

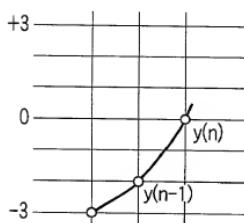


FIG. 19C

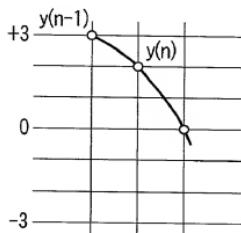


FIG. 19D

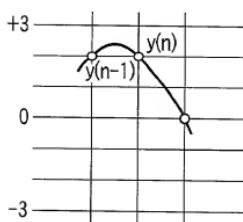


FIG. 19E

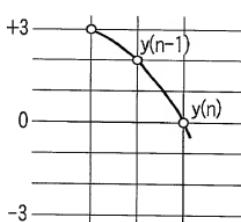


FIG. 19F

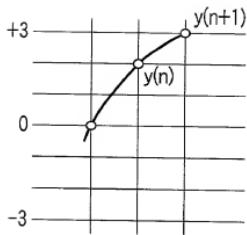


FIG. 20A

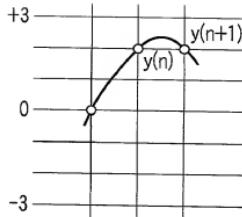


FIG. 20B

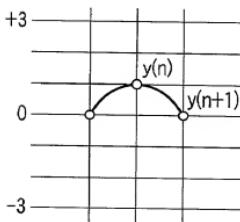


FIG. 20C

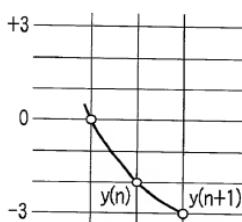


FIG. 20D

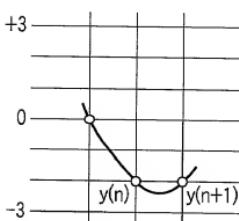


FIG. 20E

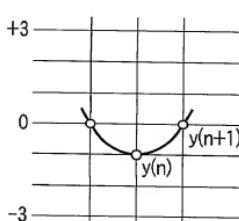


FIG. 20F

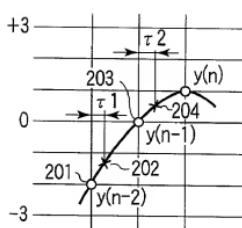


FIG. 21A

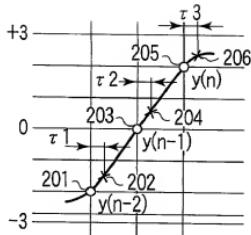


FIG. 21B

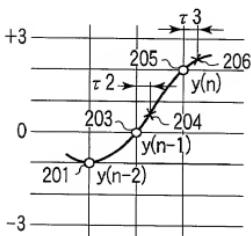


FIG. 21C

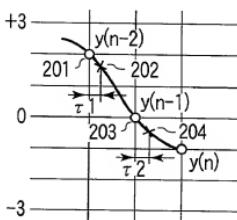


FIG. 21D

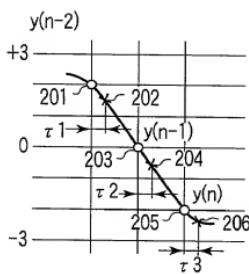


FIG. 21E

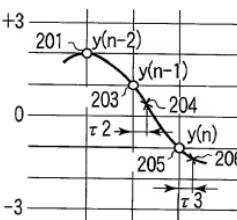


FIG. 21F

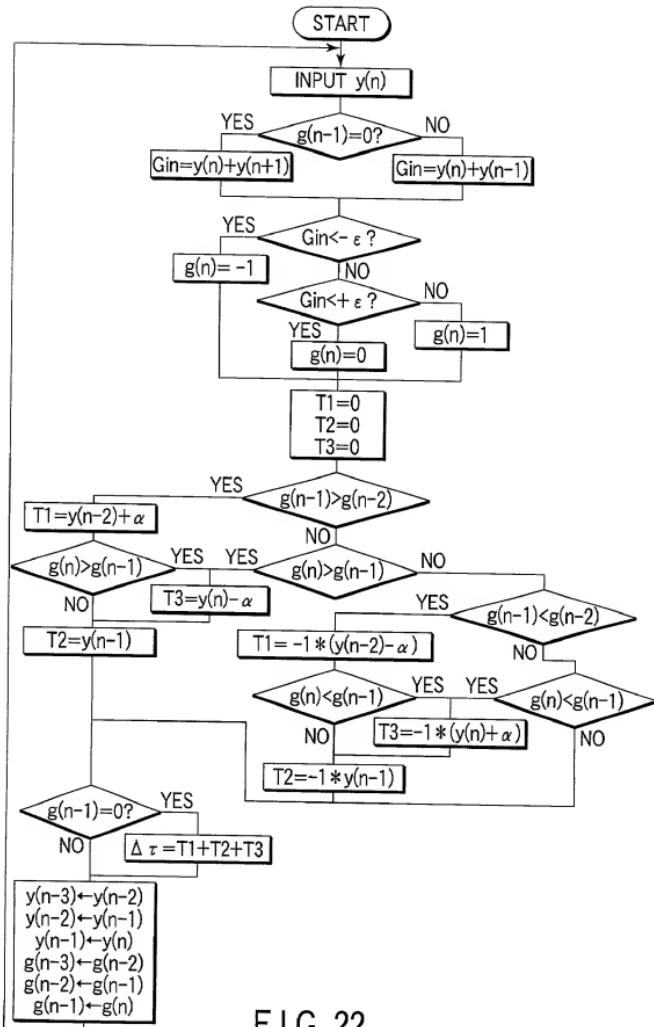
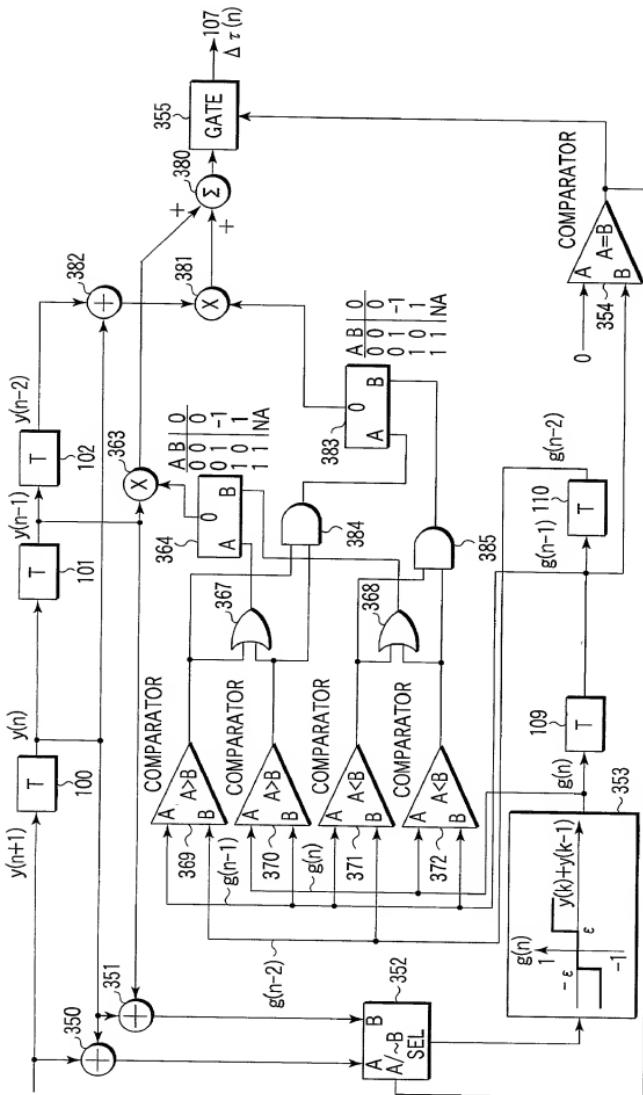


FIG. 22



E | G. 23

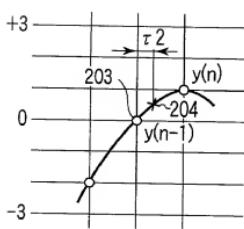


FIG. 24A

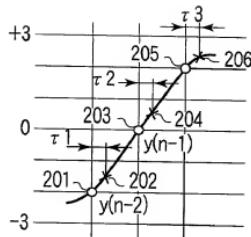


FIG. 24B

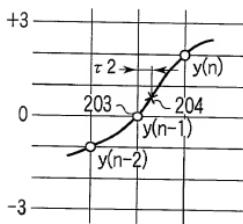


FIG. 24C

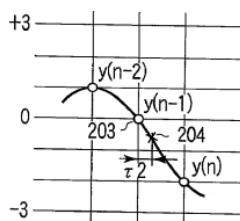


FIG. 24D

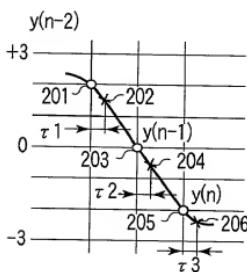


FIG. 24E

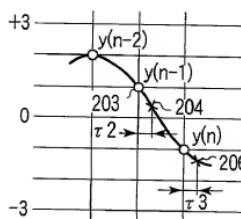


FIG. 24F

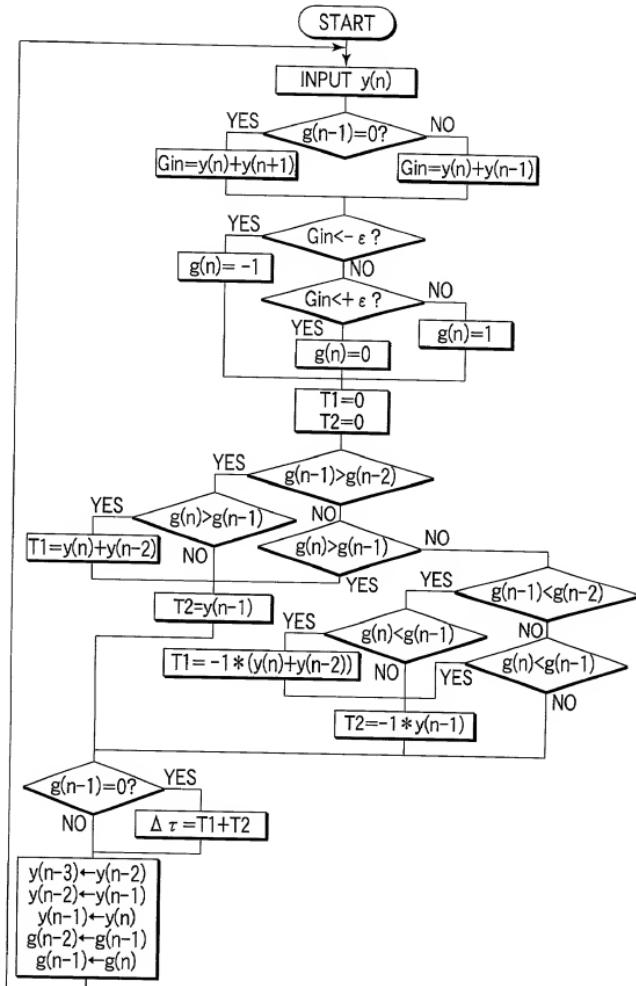
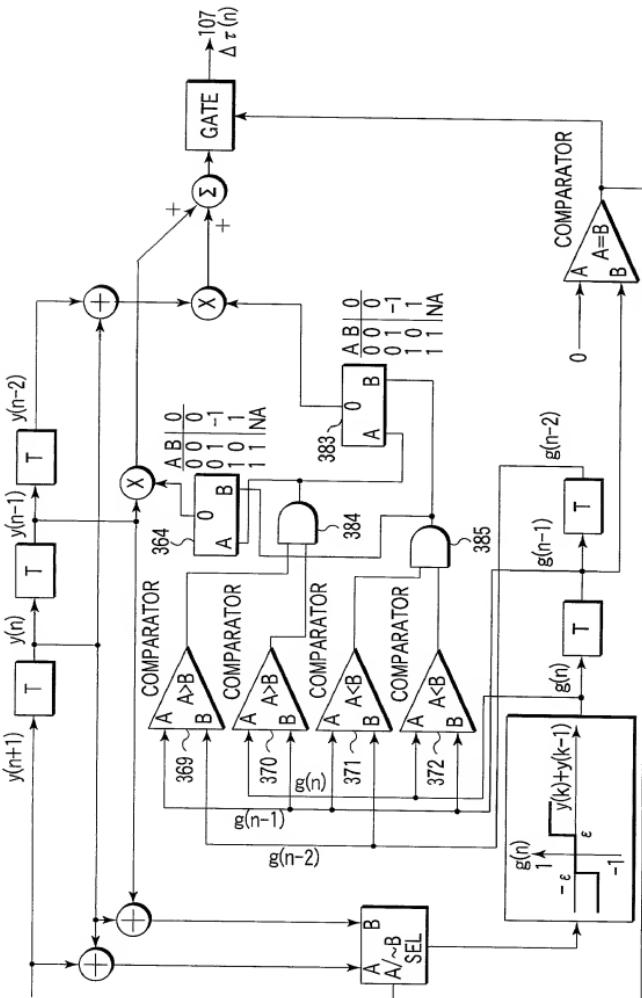


FIG. 25



E | G. 26

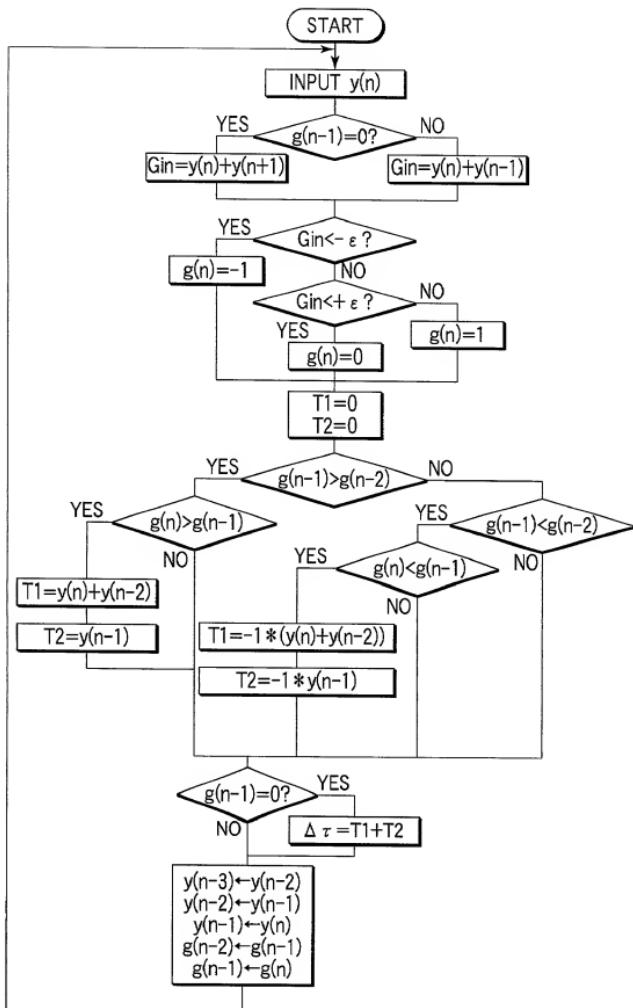


FIG. 27